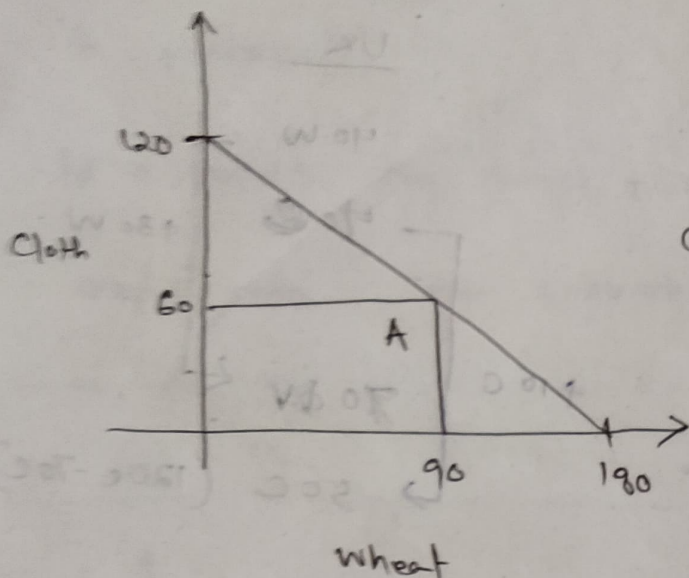
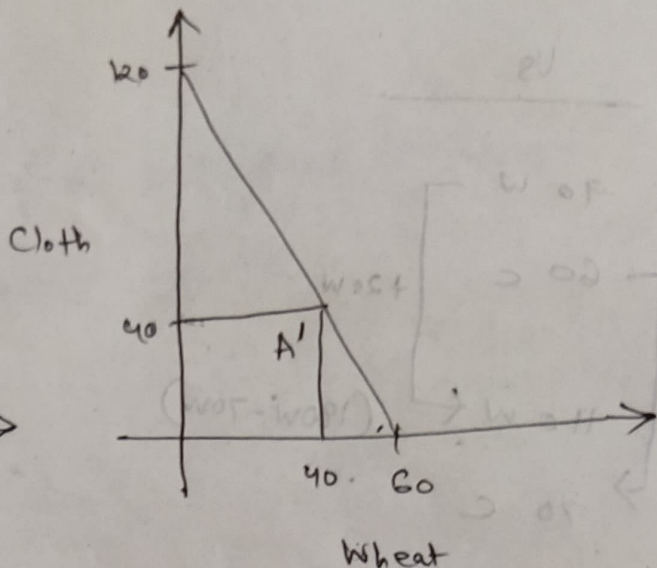


This is the case BEFORE TRADE :

USA



UK



	US	UK
Wheat	90 W	40 W
Cloth	60 C	40 C

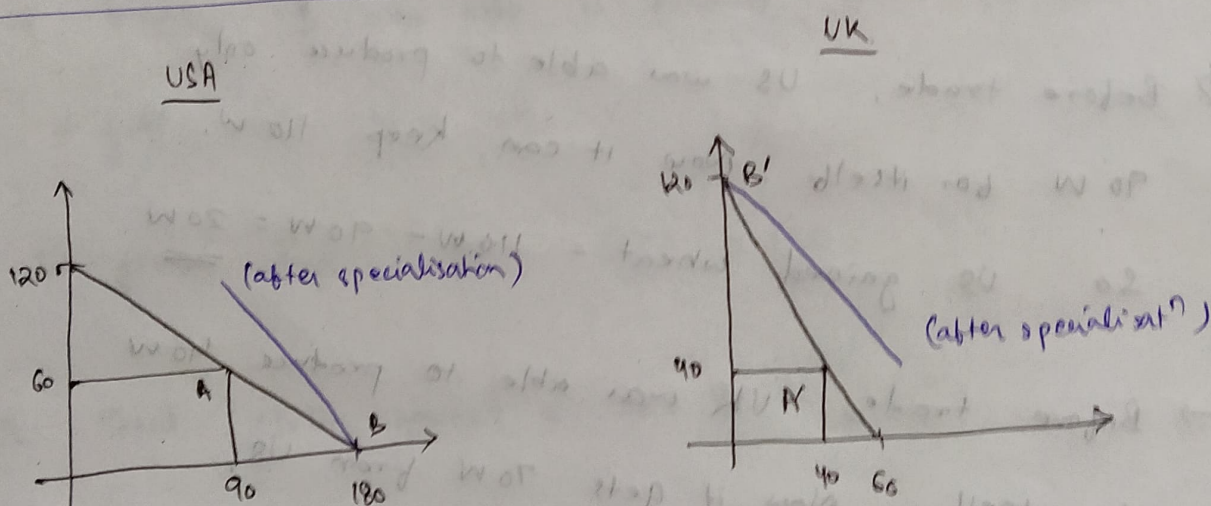
From Relative Commodity Price, we already know that US has a lower opportunity cost of producing wheat (has greater comparative advantage ^{in wheat}) and UK has a ~~higher~~ lower opportunity cost of producing cloth (has greater comparative adv. in cloth)

So US specialises in wheat, utilizing all its resources to produce wheat.

UK specialises in cloth, utilizing all its resources to produce clothes.

∴ This means, US produces its maximum possible amount of wheat 180W and UK produces its maximum possible amount of cloth 120C.

AFTER TRADE SITUATION:



what is the exchange rate?

USA specialises in wheat, but it needs clothes.

So, it needs more than 60C since it can produce

60C by itself before trade anyway.

Similarly UK specialises in clothes, it needs wheat.

Exchange rate should provide more than 40W since UK

can produce 40W by itself before trade anyway.

Suppose the exchange rate is

$$70W = 70C$$

This means US provides 70W to UK in exchange for 70C from UK.

We know, US (after specialisation) is producing 180W.

→ If it gives 70W to UK then it has 180 - 70 = 110W remaining for itself.

→ Before trade, US was able to produce only 90W for itself. Now it can keep 110W.

So US gained wheat = $110W - 90W = 20W$

→ Before trade, UK was able to produce 40W for itself. Now it gets 70W from US.

So UK gained wheat = $70W - 40W = 30W$

Total wheat gained = $30W + 20W$
 $= 50W$

We know UK (after specialisation) is producing 120 C

→ If it gives 70 C to US, then it has $120 - 70 = 50$ C remaining for itself.

→ Before trade, UK was able to produce 40 C for itself.

Now it can keep 50 C.

$$\text{So UK gained cloth} = 50\text{ C} - 40\text{ C} = \underline{\underline{10\text{ C}}}$$

→ Before trade, US was able to produce 60 C for itself.

Now, it gets 70 C from UK.

$$\text{So US gained cloth} = 70\text{ C} - 60\text{ C} = \underline{\underline{10\text{ C}}}$$

$$\text{So Total cloth gained} = 10\text{ C} + 10\text{ C} = \underline{\underline{20\text{ C}}}$$

Total Gains of Trade → 50 W and 20 C